

SNiPacard

Block annotations

Block info





genomic range	chr1:160,710,157-160,725,854 <i>e!</i>
block size	15,698 bp
variant count	13 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -0.419$ [-0.939 - 0.166]	gene(s) hit or close-by	SLAMF7 <i>e!</i>
phastCons	$\mu = 0.002$ [0 - 0.018]	eQTL gene(s)	LY9 <i>e!</i> , SLAMF7 <i>e!</i>
GERP++	$\mu = -1.916$ [-4.78 - 0.85]	potentially regulated gene(s)	B4GALT3 <i>e!</i> , LY9 <i>e!</i> , NCSTN <i>e!</i> , PVRL4 <i>e!</i> , RP11-544M22.3 <i>e!</i> , SLAMF1 <i>e!</i>
CADD score	$\mu = 4.046$ [0.885 - 11.26]	disease gene(s)	NCSTN <i>e!</i> , PVRL4 <i>e!</i>





Trait annotations

Disease gene annotation


gene	trait	source DB	source entry/link
NCSTN <i>e!</i>	ACNE INVERSA, FAMILIAL, 1	OMIM	MIM:142690 
PVRL4 <i>e!</i>	ECTODERMAL DYSPLASIA-SYNDACTYLY SYNDROME 1	OMIM	MIM:613573 
PVRL4 <i>e!</i>	ECTODERMAL DYSPLASIA-SYNDACTYLY SYNDROME 1	DECIPHER	MIM:613573 
PVRL4 <i>e!</i>	Ectodermal dysplasia - syndactyly syndrome	OrphaNet	OrphaNet:247820 

Direct effect on regulation

cis-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
SLAMF7 <i>e!</i>	ENST00000368043 <i>e!</i>	ILMN_1710923 <i>e!</i>	blood	1.56×10 ⁻¹⁵ (p-value)	MuTHER consortium 	9
SLAMF7 <i>e!</i>	ENST00000368042 <i>e!</i>					
SLAMF7 <i>e!</i>	ENST00000458602 <i>e!</i>					
SLAMF7 <i>e!</i>	ENST00000444090 <i>e!</i>					
SLAMF7 <i>e!</i>	ENST00000441662 <i>e!</i>					
SLAMF7 <i>e!</i>	ENST00000621377 <i>e!</i>					
SLAMF7 <i>e!</i>	ENST00000359331 <i>e!</i>					
SLAMF7 <i>e!</i>	ENST00000484221 <i>e!</i>					
SLAMF7 <i>e!</i>	ENST00000458104 <i>e!</i>					
SLAMF7 <i>e!</i>	?	ENSG00000026751 <i>e!</i>	blood	5.58×10 ⁻⁵ (q-value)	SeeQTL DB (HapMap) 	6
LY9 <i>e!</i>	ENST00000392203 <i>e!</i>	ILMN_1731928 <i>e!</i>	b-cell	1.04×10 ⁻⁴ (p-value)	Fairfax et al. 	1
LY9 <i>e!</i>	ENST00000263285 <i>e!</i>					
LY9 <i>e!</i>	ENST00000368037 <i>e!</i>					
LY9 <i>e!</i>	ENST00000368035 <i>e!</i>					
LY9 <i>e!</i>	ENST00000490902 <i>e!</i>	ILMN_1812278 <i>e!</i>	blood	3.44×10 ⁻⁶ (p-value)	Westra et al. 	1
LY9 <i>e!</i>	ENST00000368039 <i>e!</i>					

trans-eQTL

gene	transcript	probe	chromosome	tissue	min(statistic) (type)	source	variant(s)
SLAMF7 <i>e!</i>	ENST00000368043 <i>e!</i>	222838_at <i>e!</i>	chr1	blood	2.70×10 ⁻¹¹ (p-value)	Dixon et al. 	3
SLAMF7 <i>e!</i>	ENST00000368042 <i>e!</i>						
SLAMF7 <i>e!</i>	ENST00000458602 <i>e!</i>						

SLAMF7 <i>e!</i>	ENST00000444090 <i>e!</i>						
SLAMF7 <i>e!</i>	ENST00000621377 <i>e!</i>						
SLAMF7 <i>e!</i>	ENST00000441662 <i>e!</i>						
SLAMF7 <i>e!</i>	ENST00000359331 <i>e!</i>						
SLAMF7 <i>e!</i>	ENST00000484221 <i>e!</i>						
SLAMF7 <i>e!</i>	ENST00000458104 <i>e!</i>						
LY9 <i>e!</i>	ENST00000368039 <i>e!</i>	231124_x_at <i>e!</i>	chr1	blood	9.00×10 ⁻⁸ (p-value)	Dixon et al. <i>l</i> <i>m</i>	2

Putative effect on regulation

ENCODE promoter-associated distal DHS (Enhancer)

SNiPA enhancer id	variant(s)	associated SNiPA promoter id	associated gene(s)
ENCE00000040800 <i>e!</i>	1	ENCP00000005127	NCSTN <i>e!</i>
		ENCP00000005137	SLAMF1 <i>e!</i>
		ENCP00000005188	B4GALT3 <i>e!</i>
ENCE00000041028 <i>e!</i>	1	ENCP00000005160	RP11-544M22.3 <i>e!</i>
		ENCP00000005170	PVRL4 <i>e!</i>
		ENCP00000005147	LY9 <i>e!</i>

Regulatory feature cluster

element id	variant(s)	tissue/cell	factors
ENSR00000671302 <i>e!</i> (promoter)	3	cervix (HeLa-S3)	H3K27me3
		monocytes (Monocytes-CD14+)	DNase1, H3K4me1, H3K4me3
		embryonic stem cell (H1ESC)	CTCF, Rad21, DNase1
		HSMMtube	H3K27me3
		blood (GM12878)	TAF1, PU1, PolII, DNase1, Yy1, H3K79me2, H3K4me3, H3K27ac, H3K4me2, H3K9ac, H3K36me3
		blood (K562)	H3K27me3
		skin (NHEK)	DNase1, H3K4me3
ENSR00001587157 <i>e!</i> (CTCF binding site)	1	monocytes (Monocytes-CD14+)	H3K4me1, H3K4me3
		embryonic stem cell (H1ESC)	CTCF, Rad21, DNase1
		HSMMtube	H3K27me3
		blood (GM12878)	PolII, H3K79me2, H3K4me3, H3K27ac, H3K4me2, H3K9ac, H3K36me3
		blood (K562)	H3K27me3
ENSR00001587158 <i>e!</i> (enhancer)	1	monocytes (Monocytes-CD14+)	H3K4me1
		embryonic stem cell (H1ESC)	DNase1
		HSMMtube	H3K27me3
		blood (GM12878)	PolII, H3K79me2, H3K36me3
		A549	CTCF
		blood (K562)	H3K27me3, CTCF
		skin (NHEK)	DNase1, H3K4me1

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
SLAMF7 <i>e!</i>	downstream gene variant	1250	ENST00000441662 <i>e!</i>	NM_001282589.1	ENSP00000405605 <i>e!</i>	1
SLAMF7 <i>e!</i>	downstream gene variant	2396	ENST00000488819 <i>e!</i>	?	?	2
SLAMF7 <i>e!</i>	upstream gene variant, downstream gene variant	1243	ENST00000484221 <i>e!</i>	?	?	3
SLAMF7 <i>e!</i>	downstream gene variant	514	ENST00000495334 <i>e!</i>	?	ENSP00000473590 <i>e!</i>	5
SLAMF7 <i>e!</i>	downstream gene variant	1243	ENST00000359331 <i>e!</i>	NM_001282596.1, NM_001282592.1	ENSP00000352281 <i>e!</i>	1
SLAMF7 <i>e!</i>	downstream gene variant	1243	ENST00000368043 <i>e!</i>	NM_021181.4	ENSP00000357022 <i>e!</i>	1
SLAMF7 <i>e!</i>	downstream gene variant	1250	ENST00000444090 <i>e!</i>	NM_001282588.1	ENSP00000416592 <i>e!</i>	1
SLAMF7 <i>e!</i>	downstream gene variant	1250	ENST00000458602 <i>e!</i>	NM_001282591.1	ENSP00000409965 <i>e!</i>	1

SLAMF7 <i>e!</i>	downstream gene variant	1250	ENST00000621377 <i>e!</i>	NM_001282594.1	ENSP00000483774 <i>e!</i>	1
SLAMF7 <i>e!</i>	downstream gene variant	1243	ENST00000368042 <i>e!</i>	NM_001282590.1, NM_001282595.1	ENSP00000357021 <i>e!</i>	1
SLAMF7 <i>e!</i>	downstream gene variant	1250	ENST00000458104 <i>e!</i>	NM_001282593.1	ENSP00000403294 <i>e!</i>	1

Putative effect on transcript

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
SLAMF7 <i>e!</i>	ENST00000359331 <i>e!</i>	NM_001282596.1, NM_001282592.1	ENSP00000352281 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000368043 <i>e!</i>	NM_021181.4	ENSP00000357022 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000488819 <i>e!</i>	?	?	7
SLAMF7 <i>e!</i>	ENST00000458602 <i>e!</i>	NM_001282591.1	ENSP00000409965 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000458104 <i>e!</i>	NM_001282593.1	ENSP00000403294 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000368042 <i>e!</i>	NM_001282590.1, NM_001282595.1	ENSP00000357021 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000441662 <i>e!</i>	NM_001282589.1	ENSP00000405605 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000444090 <i>e!</i>	NM_001282588.1	ENSP00000416592 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000495334 <i>e!</i>	?	ENSP00000473590 <i>e!</i>	8
SLAMF7 <i>e!</i>	ENST00000621377 <i>e!</i>	NM_001282594.1	ENSP00000483774 <i>e!</i>	9
SLAMF7 <i>e!</i>	ENST00000484221 <i>e!</i>	?	?	2

3'-UTR variant

gene	affected transcript	RefSeq id	protein	variant(s)
SLAMF7 <i>e!</i>	ENST00000359331 <i>e!</i>	NM_001282596.1, NM_001282592.1	ENSP00000352281 <i>e!</i>	3
SLAMF7 <i>e!</i>	ENST00000368043 <i>e!</i>	NM_021181.4	ENSP00000357022 <i>e!</i>	3
SLAMF7 <i>e!</i>	ENST00000458602 <i>e!</i>	NM_001282591.1	ENSP00000409965 <i>e!</i>	3
SLAMF7 <i>e!</i>	ENST00000458104 <i>e!</i>	NM_001282593.1	ENSP00000403294 <i>e!</i>	3
SLAMF7 <i>e!</i>	ENST00000368042 <i>e!</i>	NM_001282590.1, NM_001282595.1	ENSP00000357021 <i>e!</i>	3
SLAMF7 <i>e!</i>	ENST00000441662 <i>e!</i>	NM_001282589.1	ENSP00000405605 <i>e!</i>	3
SLAMF7 <i>e!</i>	ENST00000444090 <i>e!</i>	NM_001282588.1	ENSP00000416592 <i>e!</i>	3
SLAMF7 <i>e!</i>	ENST00000621377 <i>e!</i>	NM_001282594.1	ENSP00000483774 <i>e!</i>	3

Non-coding exon variant

gene	affected transcript	RefSeq id	variant(s)
SLAMF7 <i>e!</i>	ENST00000484221 <i>e!</i>	?	4

